

Page 1

=> s l1 full

FULL SEARCH INITIATED 15:32:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 125668 TO ITERATE

100.0% PROCESSED 125668 ITERATIONS
SEARCH TIME: 00.00.01

936 ANSWERS

L3 936 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
170.00	170.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:32:15 ON 30 JUL 2004
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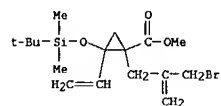
FILE COVERS 1907 - 30 Jul 2004 VOL 141 ISS 6
FILE LAST UPDATED: 29 Jul 2004 (20040729/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l3

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

LJ ANSWER 1 OF 936 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 717127-28-1 REGISTRY
 CN Cyclopropanecarboxylic acid, 1-[2-(bromomethyl)-2-propenyl]-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-ethenyl-, methyl ester (9CI) (CA
 INDEX
 NAME)
 MF C17 H29 Br O3 Si
 SR CA



Page 3

=> s 13

L4 260 L3

=> s 14 and pyrrol?

128218 PYRROL?

L5 13 L4 AND PYRROL?

=> d 15 ibib abs hitstr 1-13

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:141810 CAPLUS
 DOCUMENT NUMBER: 140:139152
 TITLE: Synthesis of 2,2'-bipyrroles and
 2,2'-thienylpyrroles

from donor-acceptor cyclopropanes and

2-cyanoheteroles

AUTHOR(S): Yu, Ming; Pantos, G. Dan; Sessler, Jonathan L.;
 Pagenkopf, Brian L.

CORPORATE SOURCE: Department of Chemistry and Biochemistry,
 University of Texas at Austin, Austin, TX, 78712, USA

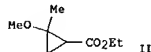
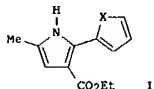
SOURCE: Organic Letters (2004), 6(6), 1057-1059
 CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Two series of 2,2'-bipyrroles, e.g., I (X = NH), and
 2,2'-thienylpyrroles,

e.g., I (X = S), have been prepd. by trimethylsilyl
 trifluoromethanesulfonate-mediated reaction of donor-acceptor
 cyclopropanes, e.g., II, with 2-cyanopyrroles and 2-cyanothiophene,

resp.

This method opened the door for synthesis of a wide variety of unsym.
 bipyrroles and thienylpyrroles.

IT 78932-45-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of bipyrrolecarboxylates and thienylpyrrolecarboxylates

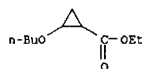
via heterocyclization of alkoxy-cyclopropanecarboxylates with
 cyanopyrroles

or cyanothiophene)

RN 78932-45-3 CAPLUS

CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX
 NAME)

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR
 THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:960478 CAPLUS

DOCUMENT NUMBER: 140:111237

TITLE: A Powerful New Strategy for Diversity-Oriented
 Synthesis of Pyrroles from Donor-Acceptor
 Cyclopropanes and Nitriles

AUTHOR(S): Yu, Ming; Pagenkopf, Brian L.

CORPORATE SOURCE: Department of Chemistry and Biochemistry, The
 University of Texas at Austin, Austin, TX,

78712, USA

SOURCE: Organic Letters (2003), 5(26), 5099-5101
 CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Lewis acid-activated donor-acceptor cyclopropanes react with aliph.,
 arom., and .alpha.,.beta.-unsatd. nitriles in a novel cascade [3 + 2]
 dipolar cycloaddn., dehydration, and tautomerization sequence to

afford

pyrroles in moderate to excellent overall yield. This
 cost-effective and regioselective method is ideally suited for the

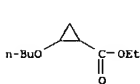
prepn. of combinatorial libraries.

IT 78932-45-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (diversity-oriented synthesis of pyrroles via Lewis
 acid-activated cycloaddn./dehydration/tautomerization reactions of
 various donor-acceptor cyclopropanes and nitriles)

RN 78932-45-3 CAPLUS

CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX
 NAME)



REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE
 FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:875173 CAPLUS

DOCUMENT NUMBER: 139:381511

TITLE: Pyrrolotriazine aniline compounds useful as
 kinase inhibitors, particularly p38 kinases, and

their

preparation, pharmaceutical compositions, and use

as

antiinflammatory agents

INVENTOR(S): Dyckman, Alaric; Hynes, John; Leftheris,

Katherina;

Li, Chunjian; Wcableski, Stephen T.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 158 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

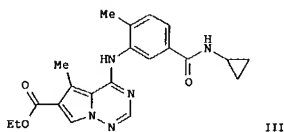
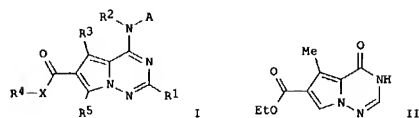
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003090912	A1	20031106	WO 2003-US12426	20030415
WO 2003090912	CZ	20040108		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,				
CN,		CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE,		
GH,		GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,		
LR,		LS, LT, LU, LV, MA, MD, MG, MX, MN, MW, MY, NZ, NI, NO, NZ,		
OM,		PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,		
TT,		TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG,		
KZ,		MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,		
BG,		CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,		
MC,		NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,		
GQ,		GW, ML, MR, NE, SN, TD, TG		
US 2004082582 A1 20040429 US 2003-420399 20030422				
PRIORITY APPLN. INFO.: US 2002-374938P P 20020423				
OTHER SOURCE(S): MARPAT 139:381511				
GI				

L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



AB Title compds. I and their enantiomers, diastereomers, pharmaceutically acceptable salts, prodrugs, and solvates are useful as p38 kinase inhibitors [wherein: A = certain substituted Ph rings, particularly bearing various carboxamide and sulfonamide substituents; X = O, S, S(O), SO₂, CO, CO₂, (un)substituted NH, NHCO, NHCONH, NHCO₂, NHSO₂, NHSO₂NH, SO₂NH, or CONH, halo, NO₂, cyano, or bonds; R₁, R₅ = H, (un)substituted alkyl, OH or derivs., SH or derivs., CO₂H or derivs., NH₂ or derivs., halo, NO₂, cyano; R₂ = H, alkyl; R₃ = H, Me, CF₃, MeO, halo, cyano, NH₂, or NMe; R₄ = H (with provisos), (un)substituted alk(en/yn)yl, (hetero)aryl, (hetero)cycloalkyl, or absent]. Over 300 specific compds. I and various intermediates were prepd. Compds. I selectively inhibited human p38.alpha./beta. isoenzymes and TNF-.alpha. in vitro (no data). For instance, 3-amino-4-methylbenzoic acid was amidated quant. with cyclopropylamine using EDC and DMAP in DMF. The pyrazolotriazinone ester II was then chlorinated at the ring oxo group with POCl₃ (100%). Aminolysis of the resulting chloride with the benzamide product from the first step gave 80% invention compd. III.

IT 5604-58-0P

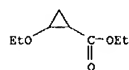
L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:828731 CAPLUS
DOCUMENT NUMBER: 140:27547
TITLE: Electronically tuned chiral ruthenium porphyrins: Extremely stable and selective catalysts for asymmetric epoxidation and cyclopropanation
AUTHOR(S): Berkesell, Albrecht; Kaiser, Patrick; Lex, Johann
CORPORATE SOURCE: Institut fuer Organische Chemie der Universitaet zu Koeln, Cologne, 50939, Germany
SOURCE: Chemistry--A European Journal (2003), 9(19), CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:27547
AB We report the use of three enantiomerically pure and electronically tuned ruthenium carbonyl porphyrin catalysts for the asym. cyclopropanation and epoxidn. of a variety of olefinic substrates. The D4-sym. ligands carry a methoxy, a Me or a trifluoromethyl group at the 10-position of each of the 9-[anti-(1,2,3,4,5,6,7,8-octahydro-1,4:5,8-dimethanoanthracene)]-substituents at the meso-positions of the porphyrin. Introduction of a CF₃-substituent in this remote position resulted in greatly improved catalyst stability, and turnover nos. of up to 7500 were achieved for cyclopropanation, and up to 14200 for epoxidn., with ee values typically >90% and .apprx. 80%, resp. In one example, the axial CO ligand at the ruthenium was exchanged for PF₃, resulting in the first chiral ruthenium porphyrin with a PF₃ ligand reported to date. In cyclopropanations with Et diazoacetate, the latter catalyst performed exceedingly well, and gave a 95% ee in the case of 1,1-diphenylethylene as substrate.

IT 213823-98-4P
RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of electronically tuned chiral ruthenium porphyrins as extremely stable and selective catalysts for asym. epoxidn. and cyclopropanation of alkenes)
RN 213823-98-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, ethyl ester, (1R,2S)-rel- (9CI) (CA INDEX NAME)

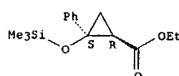
Relative stereochemistry.

L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of pyrazolotriazine aniline compds. as p38 kinase inhibitors)
RN 5604-58-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester (6CI, 9CI) (CA INDEX NAME)



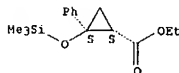
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L5 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 213618-93-0P
RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(up to 83% ee; prepn. of electronically tuned chiral ruthenium porphyrins as extremely stable and selective catalysts for asym. epoxidn. and cyclopropanation of alkenes)
RN 213618-93-0 CAPLUS
CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, ethyl ester, (1R,2R)-rel- (9CI) (CA INDEX NAME)

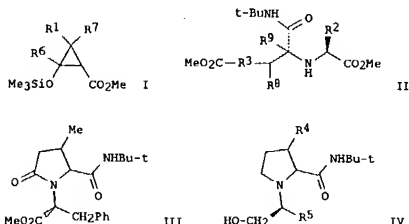
Relative stereochemistry.



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

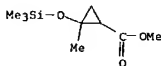
L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:669412 CAPLUS
 DOCUMENT NUMBER: 136:6308
 TITLE: Siloxycyclopropanes in Ugi four-component
 reaction: a
 substituted
 new method for the synthesis of highly

AUTHOR(S): Zimmer, Reinhold; Ziemer, Antje; Gruner, Margit;
 Brudgum, Irene; Hartl, Hans; Reissig, Hans-Ulrich
 CORPORATE SOURCE: Institut für Chemie - Organische Chemie, Freie
 Universität Berlin, Berlin, 14195, Germany
 SOURCE: Synthesis (2001), (11), 1649-1658
 CODEN: SYNTHF; ISSN: 0039-7881
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:6308
 GI

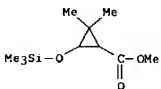


AB Reaction of Me trimethylsiloxy cyclopropanecarboxylates I (R1 = H, Me; R6 = H, Me; R7 = H, Me) with amino acids, tert-butylisocyanide and methanol furnished amino diacid derivs. II [R2 = Bn, CH2indolyl, Me, CHMeEt; R3 = CH2, (CH2)2; R8 = H, Me; R9 = H, Me] as the result of an Ugi 5-center 4-component reaction. This one-pot reaction involves .beta.-formyl esters such as MeOCOCH2CH(Me)COH as intermediate, which are liberated in situ. Adducts II could be thermally cyclized to provide .gamma.-lactams in good

L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 yields. The multi component reaction was combined with this cyclization process to a fairly efficient one-pot procedure. Thus, cyclopropane deriv. I (R1 = H) was converted into .gamma.-lactam III in good yield. Two of the .gamma.-lactams were reduced with lithium aluminum hydride to give pyrrolidine derivs. IV (R4 = R5 = Me; R4 = H, R5 = Bn). Based on an X-ray anal. of the major diastereomer of compd. IV (R4 = H, R5 = Bn), the diastereoselectivity of the 4-component reaction is discussed.
 IT 77903-43-6 77903-45-8 82884-40-0
 90288-79-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (one-pot synthesis of pyrrolidinone derivs. by Ugi reaction and cyclization from siloxycyclopropanes, amino acids, tert-butylisocyanide and methanol)
 RN 77903-43-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

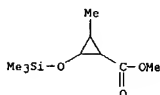


RN 77903-45-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

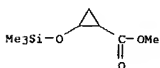


RN 82884-40-0 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-methyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

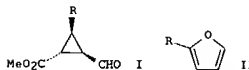


RN 90288-79-2 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-[(trimethylsilyl)oxy]-, methyl ester (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE
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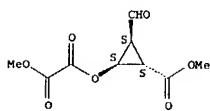
L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:609622 CAPLUS
 DOCUMENT NUMBER: 133:309693
 TITLE: A new strategy for the stereoselective synthesis of
 1,2,3-trisubstituted cyclopropanes
 AUTHOR(S): Bohm, Claudius; Schinnerl, Marina; Bubert,
 Christian;
 Zabel, Manfred; Labahn, Thomas; Parisini, Emilio;
 Reiser, Oliver
 CORPORATE SOURCE: Institut für Organische Chemie Universität
 Regensburg,
 Regensburg, 93053, Germany
 SOURCE: European Journal of Organic Chemistry (2000),
 (16),
 2955-2965
 CODEN: EJOCFK; ISSN: 1434-193X
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:309693
 GI



AB The stereoselective synthesis of highly functionalized 1,2,3-trisubstituted cyclopropanes I (R = OCHO, OCOCOMe), starting from readily available furans II (R = H, CO2Me) or N-Boc protected pyrrole, is described. Furthermore, exceptionally high diastereocontrol in agreement with the Felkin-Anh model was obsd. for the addn. of nucleophiles to the title compds.
 IT 302349-67-3 CAPLUS
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);
 PREP (Preparation); RACT (Reactant or reagent)
 (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)
 RN 302349-67-3 CAPLUS
 CN Ethanedioic acid, (1R,2R,3R)-2-formyl-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



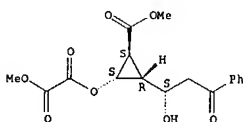
IT 302349-68-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-68-4 CAPLUS

CN Ethanedioic acid, (1R,2R,3S)-2-(methoxycarbonyl)-3-[(1R)-1-hydroxy-3-oxo-3-phenylpropyl]cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 302349-69-5P 302349-70-8P 302349-71-9P

302349-72-0P 302349-73-1P 302349-81-1P

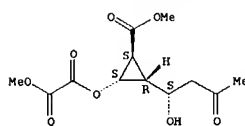
RL: SPN (Synthetic preparation); PREP (Preparation) (stereoselective prepn. and crystal structure of trisubstituted cyclopropanes via copper catalyzed cyclopropanation of furans or N-protected pyrroles with elaboration of formyl substituent via nucleophilic addn. reactions)

RN 302349-69-5 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-oxobutyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

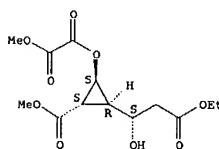
L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 302349-70-8 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-3-ethoxy-1-hydroxy-3-oxopropyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

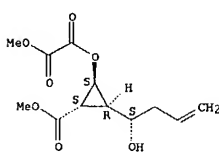
Relative stereochemistry.



RN 302349-71-9 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-1-hydroxy-3-butenyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 302349-72-0 CAPLUS

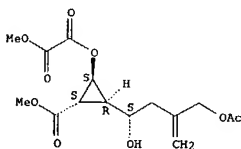
CN Ethanedioic acid, (1R,2S,3R)-2-[(1R)-3-[(acetyloxy)methyl]-1-hydroxy-3-butenyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

INDEX NAME)

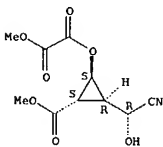
Relative stereochemistry.



RN 302349-73-1 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-cyanohydroxymethyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

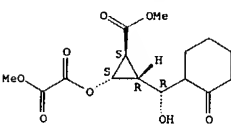
Relative stereochemistry.



RN 302349-81-1 CAPLUS

CN Ethanedioic acid, (1R,2S,3R)-2-[(S)-hydroxy(2-oxocyclohexyl)methyl]-3-(methoxycarbonyl)cyclopropyl methyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:97387 CAPLUS

DOCUMENT NUMBER: 132:278929

TITLE: Cyclopropanation of alkenes, N-H and S-H

insertion of ethyl diazoacetate catalyzed by ruthenium

porphyrin

complexes

AUTHOR(S): Galardon, Erwan; Le Maux, Paul; Simonneaux,

Gerard

CORPORATE SOURCE: Laboratoire de Chimie Organometallique et

Biologique,

UMR 6509, Universite de Rennes 1, Rennes, 35042,

Fr.

SOURCE: Tetrahedron (2000), 56(4), 615-621

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:278929

AB Product yields, stereoselectivities and regioselectivities for cyclopropanation reactions of Et diazoacetate with styrene derivs.

and

.alpha.-heteroatom alkenes, catalyzed by ruthenium porphyrins, are reported and compared with obsd. stereoselectivities for

cyclopropanation

reactions catalyzed with other metalloporphyrin catalysts. Linear correlations are obsd. when the rates for competitive

cyclopropanation or

product stereoisomer ratio are plotted against Hammett consts. of

various

ring-substituted groups on styrenes. Isomeric distribution for the cyclopropanation of isoprene and 1,3-pentadiene with Et diazoacetate

and

competition studies of the cyclopropanation and diazo insertion into heteroatom-hydrogen bonds are also reported. All these results

agree with

a major electronic and steric influence on both the regiochem. and stereochem. control in the catalytic cyclopropanation and diazo

insertion

reactions.

IT 109491-16-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

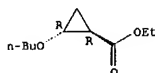
RN 109491-16-9 CAPLUS

CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester, (1R,2R)-rel- (9CI)

(CA INDEX NAME)

Relative stereochemistry.

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: THIS

51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:26987 CAPLUS

DOCUMENT NUMBER: 124:231554

TITLE: Asymmetric reactions catalyzed by chiral metal complexes LIX. Steric and electronic effects of substrates and rhodium chiral catalysts in

asymmetric

cyclopropanation

AUTHOR(S): Yoshikawa, Kiyoshi; Achiwa, Kazuo

CORPORATE SOURCE: School Pharmaceutical Sciences, Univ. Shizuoka, Shizuoka, 422, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1995), 43(12),

2048-53

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 124:231554

AB We have prepd. several new, efficient, chiral N-acyl pyrrolidine carboxylic acid ligands for dirhodium-catalyzed asym.

cyclopropanation and

found that the steric and electronic effects of the rhodium(II)

complexes

and substrates influenced the enantioselectivity and catalytic activity.

These electron-rich catalysts were shown to be efficient for asym. cyclopropanation using 1-chloro-1-fluoroethylene as a substrate.

IT 174588-87-5P 174588-88-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(steric and electronic effects of substrates and rhodium complex

chiral

catalysts in asym. cyclopropanation)

RN 174588-87-5 CAPLUS

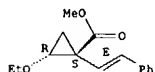
CN Cyclopropanecarboxylic acid, 2-ethoxy-1-[(1E)-2-phenylethenyl]-, methyl ester, (1S,2R)- (9CI) (CA INDEX NAME)

methyl

ester, (1S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Double bond geometry as shown.



RN 174588-88-6 CAPLUS

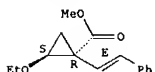
CN Cyclopropanecarboxylic acid, 2-ethoxy-1-(2-phenylethenyl)-, methyl ester, [1R-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

[1R-[1.alpha.,1(E),2.beta.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

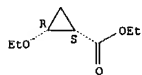
Double bond geometry as shown.

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1992:407531 CAPLUS
 DOCUMENT NUMBER: 117:7531
 TITLE: Asymmetric cyclopropanation of alkenes catalyzed by a rhodium chiral fortress porphyrin
 AUTHOR(S): O'Malley, Sean; Kodadek, Thomas
 CORPORATE SOURCE: Dep. Chem. Biochem., Univ. Texas, Austin, TX, 78712, USA
 SOURCE: Organometallics (1992), 11(6), 2299-302
 CODEN: ORGN7; ISSN: 0276-7333
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis and catalytic cyclopropanation activity of a new porphyrin known as the chiral fortress macrocycle is reported. This mol. has optically pure naphthyl-pyrenyl groups appended directly to the meso carbons of the porphyrin. The iodorrhodium deriv. is a catalyst for the cyclopropanation of alkenes by Et diazoacetate. The syn cyclopropyl esters are the major product in each case examd. except one. In some cases very high diastereoselectivity is obsd. The enantiomeric excess resulting from chiral fortress-mediated reactions are modest.
 IT 141269-61-6P 141269-62-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 141269-61-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester, (1S-cis)- (9CI) (CA INDEX NAME)

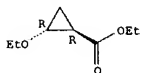
Absolute stereochemistry.



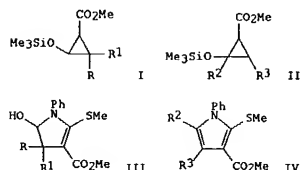
RN 141269-62-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-ethoxy-, ethyl ester, (1R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

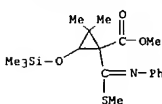


L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1988:221539 CAPLUS
 DOCUMENT NUMBER: 108:221539
 TITLE: A novel synthesis of pyrrole derivatives
 AUTHOR(S): Brueckner, Christiane; Suchland, Brigitte; Reissig, Hans Ulrich
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Wuerzburg, Wuerzburg, D-8700, Fed. Rep. Ger.
 SOURCE: Liebigs Annalen der Chemie (1988), (5), 471-3
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 108:221539
 GI

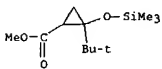


AB Enolates generated from Me 2-siloxycyclopropanecarboxylates I [R = R1 = Me, RR1 = (CH2)5] and II [R2R3 = (CH2)3, (CH2)4; R2 = CMe3, R3 = H] react with PhNCS-MeI to give Me 4,5-dihydro-1H-pyrrole-2-carboxylates III (same R, R1) after desilylation or pyrrole derivs. IV (same R2, R3) after treatment with CF3CO2H, resp. For the key ring enlargement an anionic 1,3-sigmatropic rearrangement is suggested. Several subsequent reactions of III (R = R1 = Me) are described.
 IT 113568-50-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and desilylation of)
 RN 113568-50-6 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-1-(methylthio) (phenylimino)methyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

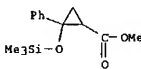
L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



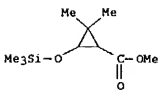
IT 77903-42-5 77903-44-7 77903-45-8
 77982-78-6 79646-62-1 82884-41-1
 RL: RCT (Reactant); RACT (Reactant or reagent) (ring enlargement of, with Ph isothiocyanate-Me iodide, pyrrole deriv. from)
 RN 77903-42-5 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-(1,1-dimethylethyl)-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 77903-44-7 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-phenyl-2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

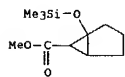


RN 77903-45-8 CAPLUS
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)

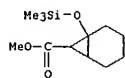


RN 77982-78-6 CAPLUS
 CN Bicyclo[3.1.0]hexane-6-carboxylic acid, 1-[(trimethylsilyl)oxy]-, methyl

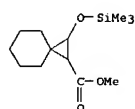
L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
ester (9CI) (CA INDEX NAME)



RN 79646-62-1 CAPLUS
CN 5-bicyclo[4.1.0]heptane-7-carboxylic acid, 1-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 82884-41-1 CAPLUS
CN Spiro[2.5]octane-1-carboxylic acid, 2-[(trimethylsilyl)oxy]-, methyl ester (9CI) (CA INDEX NAME)



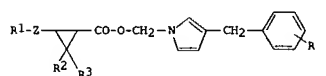
L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:121308 CAPLUS
DOCUMENT NUMBER: 94:121308
TITLE: Benzylpyrrololymethyl esters of cyclopropane carboxylic acids

INVENTOR(S): Henrick, Clive A.
PATENT ASSIGNEE(S): Zoecon Corp., USA
SOURCE: U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 942,509.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4229352	A	19801021	US 1979-66263	19790813
US 4198527	A	19800415	US 1978-942509	19780915

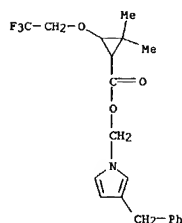
PRIORITY APPLN. INFO.: US 1978-942509 19780915
GI



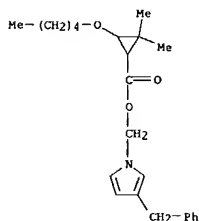
AB Pesticides (no data), benzylpyrrololymethyl cyclopropanecarboxylates I (R = H, F, Br, Cl, CF₃, Me, MeO, MeS; R₁ = lower alkyl, lower haloalkyl, lower alkenyl, lower haloalkenyl, substituted phenyl; R₂ = lower alkyl, halo; R₃ = H, lower alkyl, halo; Z = O, S) were prepd. by the reaction of the acid chloride and alc. in an org. solvent over a basic catalyst or the reaction of the acid and the benzyl halide deriv. in an org. solvent in the presence of a base. Thus, 3-(4-chlorophenoxy)-2,2-dimethylcyclopropanecarboxylic acid was treated with SO₂Cl₂ and the acid chloride was treated with 3-benzylpyrrololymethyl alc. in the presence of 4-(dimethylamino)pyridine in C₆H₆ at 25.degree. for 18 h to give I (R = H, R₁ = 4-ClC₆H₄, R₂ = R₃ = Me, Z = O).
IT 76827-16-2P 76827-17-3P 76827-18-4P 76827-19-5P

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 76827-16-2 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2,2,2-trifluoroethoxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

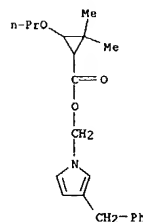


RN 76827-17-3 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

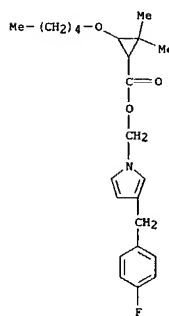


RN 76827-18-4 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-propoxy-, [3-(phenylmethyl)-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

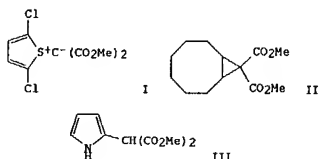
L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 76827-19-5 CAPLUS
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, [3-[(4-fluorophenyl)methyl]-1H-pyrrol-1-yl]methyl ester (9CI) (CA INDEX NAME)

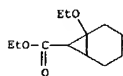


L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1979:71981 CAPLUS
 DOCUMENT NUMBER: 90:71981
 TITLE: 2,5-Dichlorothiophenium
 bismethoxycarbonylmethylidene
 bismethoxycarbonylcarbene equivalent
 AUTHOR(S): Cuffe, John; Gillespie, Roger J.; Porter,
 Alexander E.
 A.
 CORPORATE SOURCE: Chem. Dep., Univ. Stirling, Stirling, UK
 SOURCE: Journal of the Chemical Society, Chemical
 Communications (1978), (15), 641-2
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

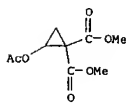


AB Refluxing the title compd. (I) with alkenes gave 60-86%
 cyclopropanated
 products. E.g., cyclooctene gave 86% bicyclopentane II. With
 pyrrole and AcOH, the products were 73% pyrrole III and
 98.5% AcOCH(CO₂Me)₂, resp.
 IT 68940-76-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 68940-76-1 CAPLUS
 CN 1,1-Cyclopropanedicarboxylic acid, 2-(acetyloxy)-, dimethyl ester
 (9CI)
 (CA INDEX NAME)

L5 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1974:47730 CAPLUS
 DOCUMENT NUMBER: 80:47730
 TITLE: .gamma.-Keto acid derivatives
 AUTHOR(S): Wenkert, Ernest; McPherson, C. Allen; Sanchez,
 E. L.;
 Webb, R. L.
 CORPORATE SOURCE: Dep. Chem., Indiana Univ., Bloomington, IN, USA
 SOURCE: Synthetic Communications (1973), 3(4), 255-9
 CODEN: SYNCAV; ISSN: 0039-7911
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 80:47730
 GI For diagram(s), see printed CA Issue.
 AB 1-Ethoxycyclohexene was treated with N₂CH₂CO₂Et and N₂CH₂COMe contg.
 copper bronze to give the bicycloheptane I (R = CO₂Et, Ac, resp.),
 which
 with concd. HCl gave 2-(carbethoxymethyl)cyclohexanone and
 2-acetonylcyclohexanone, resp. Me₂CHCHO was treated with
 pyrrolidine enamine and N₂CH₂CO₂Et contg. CuCl to give the
 cyclopropane-carboxylate II, which was hydrolyzed to give
 OCHMe₂CH₂CO₂Et.
 N₂CH₂CO₂Et and 3-pentanone morpholine enamine contg. CuCl gave
 EtCOCHMe₂CH₂CO₂Et. The diester III and 3H HCl gave the dilactone IV.
 IT 50891-52-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 50891-52-6 CAPLUS
 CN Bicyclo[4.1.0]heptane-7-carboxylic acid, 1-ethoxy-, ethyl ester
 (9CI)
 (CA
 INDEX NAME)



L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



=> d his

(FILE 'HOME' ENTERED AT 15:31:00 ON 30 JUL 2004)

FILE 'REGISTRY' ENTERED AT 15:31:06 ON 30 JUL 2004

L1 STRUCTURE UPLOADED

L2 8 S L1

L3 936 S L1 FULL

FILE 'CAPLUS' ENTERED AT 15:32:15 ON 30 JUL 2004

FILE 'REGISTRY' ENTERED AT 15:32:33 ON 30 JUL 2004

FILE 'CAPLUS' ENTERED AT 15:32:33 ON 30 JUL 2004

L4 260 S L3

L5 13 S L4 AND PYRROL?

=> s l4 and pyrrol? and nitril?

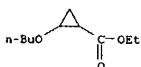
128218 PYRROL?

82056 NITRIL?

L6 1 L4 AND PYRROL? AND NITRIL?

=> d l6 ibib abs hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:960478 CAPLUS
 DOCUMENT NUMBER: 140:111237
 TITLE: A Powerful New Strategy for Diversity-Oriented
 Synthesis of Pyrroles from Donor-Acceptor
 Cyclopropanes and Nitriles
 AUTHOR(S): Yu, Ming; Pagenkopf, Brian L.
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, The
 University of Texas at Austin, Austin, TX,
 78712, USA
 SOURCE: Organic Letters (2003), 5(26), 5099-5101
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Lewis acid-activated donor-acceptor cyclopropanes react with aliph.,
 arom., and .alpha.,.beta.-unsatd. nitriles in a novel cascade [3
 + 2] dipolar cycloaddn., dehydration, and tautomerization sequence to
 afford pyrroles in moderate to excellent overall yield. This
 cost-effective and regiospecific method is ideally suited for the
 prepn. of combinatorial libraries.
 IT 78932-45-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (diversity-oriented synthesis of pyrroles via Lewis
 acid-activated cycloaddn./dehydration/tautomerization reactions of
 various donor-acceptor cyclopropanes and nitriles)
 RN 78932-45-3 CAPLUS
 CN Cyclopropanecarboxylic acid, 2-butoxy-, ethyl ester (9CI) (CA INDEX
 NAME)



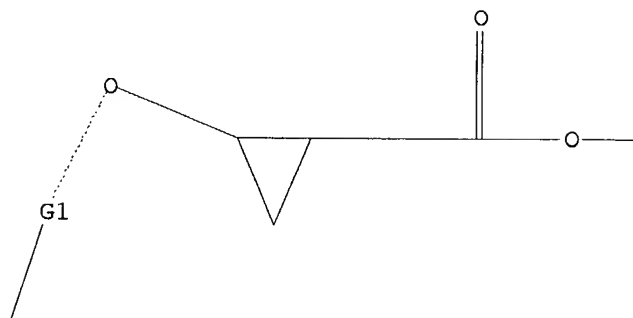
REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

=>

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,Si

Structure attributes must be viewed using STN Express query preparation.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	78.46	251.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-10.29	-10.29

STN INTERNATIONAL LOGOFF AT 15:36:12 ON 30 JUL 2004